# APPENDIX E

### Beck's Lake Site, St. Joseph County, South Bend, IN EPA ID: IND980904379 Soil Sample Location Map



SETTING TO SEE



\* Soil Sample Location





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### APPENDIX F



#### Arsenic Concentrations for Beck's Lake EPA ID Number IND980904379 South Bend, St. Joseph County







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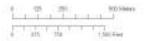
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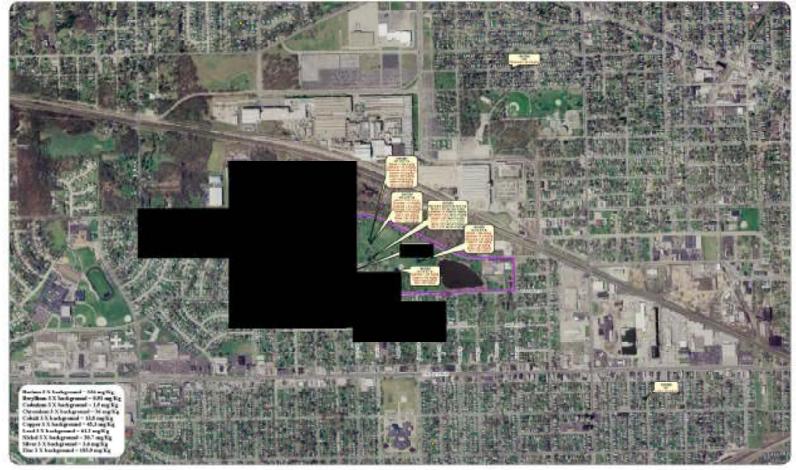


### APPENDIX G



### Heavy Metals Concentrations for Beck's Lake EPA ID Number IND980904379 South Bend, St. Joseph County





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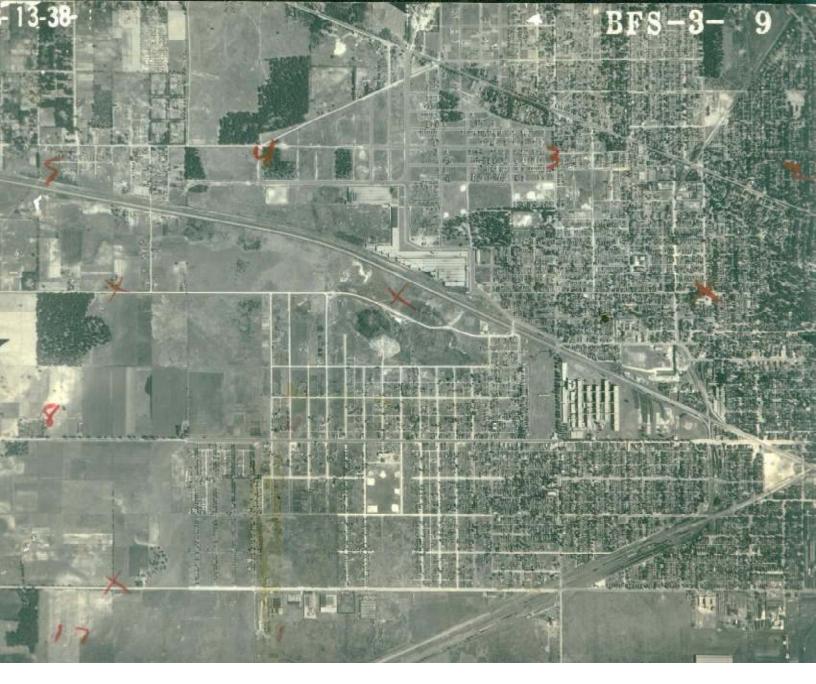
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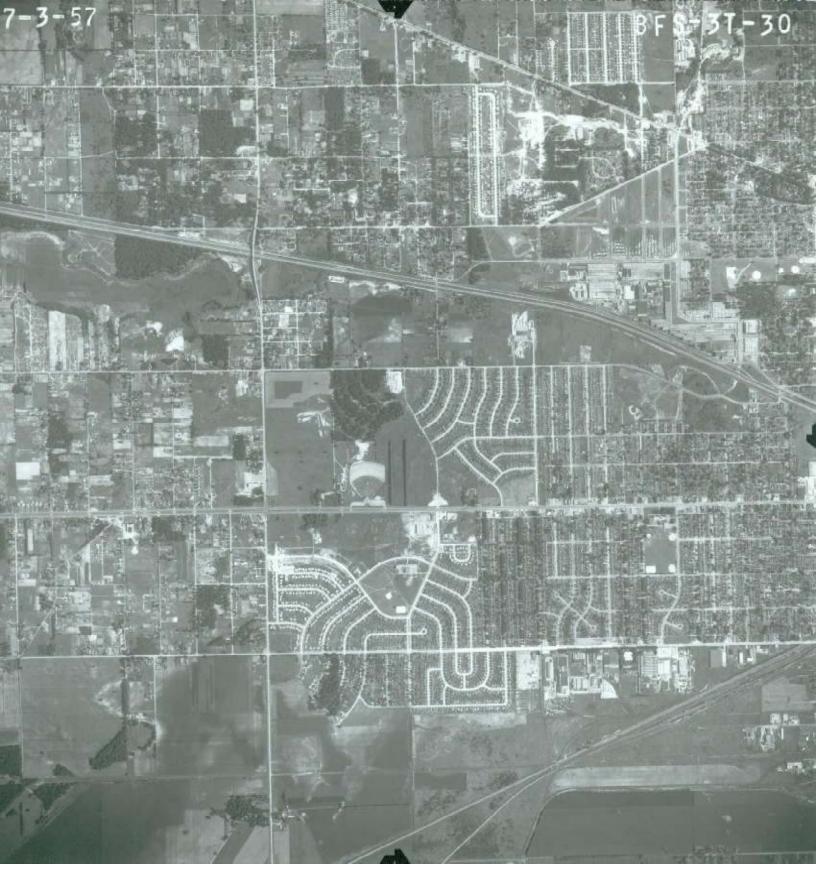
# APPENDIX H





















# APPENDIX I

#### St. Joseph County Health Department

COUNTY-CITY BUILDING - 6TH FLOOR PHONE (219) 284-9750 SOUTH BEND, INDIANA 46601

JAMES E. BOWES, M.D., M.P.H. HEALTH OFFICER

March 28, 1984

Mr. James R. Seitz
Superintendent
Department of Public Works
City of South Bend
301 South St. Louis
South Bend, Indiana 46617

Dear Mr. Seitz:

Subject: Property Described as 12.6 Acres in Section 10-37-2E (LaSalle Park), St. Joseph County, Indiana

As you know, Section 103(c) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (the Act) requires owners or operators of hazardous waste facilities, as defined in the Act, or transporters of hazardous substances to such facilities, to notify the Environmental Protection Agency (EPA) of the existence of facilities and the types of hazardous substances that were treated, stored or disposed of at the facilities.

The Bendix Corporation in South Bend, Indiana ("Bendix") has advised this Office that on the basis of information recently discovered by Bendix at some time during the past forty (40) years Bendix, together with numerous other companies and individuals, disposed of certain hazardous waste materials at the landfill site known as the Beck's Lake Landfill. Bendix is required under the Act to notify the EPA of the fact that the landfill was utilized as a disposal site for such hazardous substances even though the disposals were not unlawful when made and were made with the specific permission of the owner or operator at that time. Since Bendix is notifying the EPA, Bendix and this Office feel that you should be advised that the notification is being made.

To the extent that any assessment of the present conditions of the site will be necessary, Bendix has employed a nationally known environmental consultant, ERM-North Central, Inc. of Palatine, Illinois, to assist this Office in this effort.

We ask you to notify this Office of the names of any company or person other than Bendix who disposed of wastes at the above-identified site.

If you have any questions regarding this notice, please call this Office at 284-9721.

Very truly yours,

Paul E. Trost

Pollution Control Officer

	Notification of Hazardous Waste Sira	Side	Two	55456			3				
-	Waste Quantity:	Facilit	у Туре		otal Fac	ility Waste A	mount				
	Place an X in the appropriate boxes to	1, 🗆 1	Piles		cubic feet	unknown					
	indicate the facility types found at the site		Land Treatment		gellons	unknown					
	In the "total facility waste amount" space give the estimated combined quantity	3. M3 (	Landfill		SS 0 CO2	ility Area					
	(volume) of hazardous wastes at the site using cubic feet or gallons.	1881 (1887) (S	Impoundment			unknown					
	In the "total facility area" space, give the	6. 🖸	Underground In	jection	square feet						
	estimated area size which the facilities		Drums, Abova (	20	e0***	See Item	I.				
	occupy using square feet or acres.	0.000,0.000,000	Drums, Below ( Other (Specify)	around							
_											
ì	Known, Suspected or Likely Releases t				1207027 V17070 - 1						
411	Place an X in the appropriate boxes to indicate any known, suspected. Unknown Suspected Likely None or likely releases of wastes to the environment.										
	Note: Items Hand I are optional. Completing hazardous waste sites. Although completing	these item the item:	ms will assist E s is not required	PA and State 5, you are enc	and local gove ouraged to do	rnments in lo so.	cating and	assessing			
1	Sketch Map of Site Location: (Options	al)		*				N			
	Sketch a map showing streets, highways, routes or other prominent landmarks near		_					ł			
	the site. Place an X on the map to indicate	-		65				1			
	the site location. Graw an arrow showing the direction north. You may substitute a	1	>	_		(4)		1			
	publishing map showing the site location.	l		,				•			
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-	Description of Site: (Optional)			7/	~/		171	7			
	Describe the history and present		//>	/	1	//	1.1				
	conditions of the site. Give directions to the site and describe any nearby wells, springs, lakes, or housing, Include such	9.8	//	//	//	77	7	K			
85		8		///	///	X325	/				
	information as how waste was disposed and where the waste came from Provide			-8,-300 - 14p	WASHING	TON		A			
	any other information or comments which	*****	7-1				~ [	-1 <sub>L</sub>			
	may help describe the site conditions		D	C	1	(i) (ii)	B E	Y			
			U	AM	I B		N	1 1			
	. Site at some point within a	an area	D	D	E	C	D				
	of approximately 15 acres.		E	E	R	1 10	ī				
	. Site owned by the City of		E	N	T	6 6 6	x	1 1			
	South Bend.		-	-"	Y						
	. Site area served by City	water	1-1				4	1 1			
	System.		1 1	4 1	1						
J	Signature and Title:		New York		DOD LET OU						
	The person or authorized representative (such as plant managers, superintendents,	Name THE BENDIX CORPORATION					Owner, Present				
	trustees or attorneys) of persons required	Street 401 Bendix Drive (P.O. Box 4001)									
	to notify must sign the form and provide a mailing address (if different than address	Con South Bend State IN Zip Code 46620					- ☑ Transporter ☐ Operator, Present				
	in item A). For other persons providing						17 P. C.	25.00 PM			
	notification, the signature is optional.  Check the boxes which best describe the						Operator, Past Other				
	relationship to the site of the person required to notify. If you are not required	Signature Gerald J. Budzin, Ogete March 28, 1984									
	to notify check "Other".		Manager of	Environme	ntal Contr	ol	-	1000			

### SEPA Notification f Hazardous Waste Si

United States **Environmental Protection** Agency Washington DC 20460

This initial notification information is required by Section 103(c) of the Comprehensive Environmental Response, Compen- paper. Indicate the letter of the item sation, and Liability Act of 1980 and must which applies. be mailed by June 9, 1981.

Form Approved OMB No. 2000-0118

EPA Form 8900-1

Please type or print in ink. If you need additional space, use separate sheets of

Site 15



	× 6									
4	Person Required to Notify:	THE BE	NDIX CORPORATION							
	Enter the name and address of the person or organization required to notify.	on	(0) 7-11-0-1-10-0-2-1001							
	# # # # # # # # # # # # # # # # # # #	Street 401 Be	Idix Drive (F.O. box	4001)						
		cay South	South Bend State IN Zu Code 46620							
3	Site Location:		"Beck's Lake Site"							
	Enter the common name (if known) and actual location of the site.	Name of Site	Beck & Lake Site							
	actual location of the site.	Sweet Colfa:	Sweet Colfax and Kaley Streats							
		CHy South Bend	County St. Josephs	iate IN . Zio Cod	46619					
	Person to Contact:		Budgin Comald I	Manager of Pa	uri manuant a 1					
	Enter the name, title (if applicable), and business telephone number of the personal transfer of	Name (Last, First and Title)	Budzin, Gerald J.	- manager of Er	Contro					
	to contact regarding information submitted on this form.	Phone (219)	237-5993	34						
00	Dates of Waste Handling:		1 100 <del>100 100 100 100 100 100 100 100 1</del>		<del></del>					
	Enter the years that you estimate waste treatment, storage, or disposal began an		mtil mid 1950's.							
	ended at the site.				- 11111					
1	4									
	Waste Type: Choose the option you prefer to complete									
	Option I: Select general waste types an you do not know the general waste type encouraged to describe the site in Item I	Option 2: This option is a Resource Conservation an regulations (40 CFR Part 2	d Recovery Act (RCR	amiliar with the IA) Section 3001						
		e of Waste: an X in the appropriate	Specific Type of Waste: EPA has assigned a four-digit number to each hazardous wast listed in the regulations under Section 3001 of RCRA. Enter the appropriate four-digit number in the boxes provided. A copy of the list of hazardous wastes and codes can be obtained by contacting the EPA Region serving the State in which the site							
	NY 18 NY ESTATEMBER 19 NO 19 N	Mining	located.							
	- NECKELON	Construction								
		Textiles								
		Fertilizer								
	Service of the Servic	Paper/Printing								
		Leather Tanning								
	A CONTRACTOR OF THE PROPERTY O	Iron/Steel Foundry								
		Chemical, General								
	9. Mixed Municipal Waste 9. Q	Plating/Polishing			4					
	Spinor professional and the company of the company	Military/Ammunition								
	TIN   BENEFAR AND   TRICKY   BUNEFAR   BUNEFAR	Electrical Conductors								
		Transformers								
		Utility Companies			- 01					
	14. 🗆	Sanitary/Refuse								
	. 15. 🗆	Photofinish								
	16. 🖸	Lab/Hospital	*							
		Unknown								
	18. Q Auto	Other (Specify) notive/Aerospace		8.2						
		facturing Facility Code 3714, 3722 &								

3728

#### Bendix Corporation South Bend, Indiana

Waste streams as suggested from Division of Land Pollution Control files and waste hauler reports. (Quantites are based on 1979-1980 reports.)

Asbestos containing fire brick
Paint Wastes (VM + P Naptha, aliphatic hydrocarbon solvent, Methyl Isobutyl Ketone, Ethanol and Mineral Spirits)

Tie Bar Wastes M.O.C.A. contaminated wastes (4,4-Methylene bis 2-Chloroaniline) Raw M.O.C.A wastes (approximately 30 gal/yr) Asbestos dust Asbestos pellets Asbestos Soluble Oil and Water Mixture (approximately 10,000 gal/mo) Hydroxide Sludge Chromium Spray Booth Paint Wastes Touch-up Paint Wastes Salt Bath Salts (Chloride salts?) Chromic Acid Zinc Hydroxide/Calcium phosphate sludge Lead Hydroxide/Lead sulfide sludge Wastawater treatment sludge (approximately 300 tons/yr) Iron/Zinc phosphate sludge Heat Treating Salts Chromic Acid contaminated fiberglass pit liner Chromic anodic tank clean-out Chrome plating tape Nickel waste T-Line cleanout Stoddard Solvents Foundry Sand (see below for analysis) Cadmium hydroxide sludge Ferro Cyanide and Cyanide wastes Naphtha

Bendix Corporation makes brakes, steering systems, brake components and streets for automobiles and airplanes. They notified on 17 sites, including their plant at 401 Bendix Drive, South Bend, Indiana. The other 16 properties are off-site and under private ownership. The site names, dates, and addresses are:

St. Joseph County Landfill, Jackson and Locust Roads, 1940-70 St. Joseph County Landfill, U.S. 31 and Ireland, 1969-1971 Dollar Lake Site, SR 23 and Mayflower Road, Early to mid 1960's Area West of Bendix Oil Tank, Linden Avenue, 1940-1970 Beck's Lake Site, Colfax and Kaley Streets, until mid 1950's Butternut Road Site, Butternut and Douglas Roads, 6 months in 1955-1960

Former City/County Landfill, Bendix Drive North of Lincolnway West, until early 1960's
Fillmore Road North Site, Fillmore Road West of Mayflower,
1 to 1 1/2 years in mid 1950's
Douglas Road Site, Douglas and Bendix Drive, 1960s to closure
Linden Road Site, Linden and Chippewa Roads, 30 days, 1970's
Pine Road Site, Pine and Fillmore Roads, mid 1960's
Sample Street Lagoon Site, 3300 West Sample Street, 1956-1972
Speeks Site, Bendix Drive and Douglas Road, mid 1960's thru
early 1970's
South Bend Avenue Site, South Bend and Twy Kenham Avenue, unknown
Schuman Dump Site, Mayflower and Ireland Road, 1960-1970
Western Avenue Site, Elmer, Huron, Hollywood and Ford, unknown
All St. Joseph County-All South Bend

The Bendix Corporation has operated from approximately 1930 to the present time, although off-site disposal was halted sometime around 1973. The disposal dates are approximate in most cases and represent a "best effort" by the company prior to their filing in March of 1984.

Foundry Sand, (in ppm) phenols, 1.2-to-4.6 Naphthalene, .460-to-2.400 Phenanthrene, .2 Zinc, .43-38 Selenium, .08 Methylene Chloride, .012-to-9.2 TCE, .039 1,1,2,2-Tetrochlorethylene, .016 Butylbenzylphalatate, .6-to-.270 Arsenic, 17 Cadmium, 1.0-to-.01 Copper, 12 Lead, 14 Chromium, 6.7 Nickel, 3.4 Manganese, .053 Bis (2-ethylhexyl) phthalate, .680-to-.220 Toluene, .057 Pentachlorophenol, .520 1,3-Isobenzofurandione, 310

These numbers show some ranges resulting from many samplings at various dates. Note that cyanides, sulfates and chlorides were not run on these samples.

### 1976 Bendix Liquid Waste Removal Record

201,600 gallons emulsion 60,070 gallons Trichlorethylene (TCE) sludge 10,000 gallons Sodium Dichromate Waste 3,300 gallons Laquer Thinner Waste 1,500 gallons Copper Cyanide Stripper Waste 15,200 gallons Chromic Acid Waste 715 gallons Copper, Nickel and Cyanide Waste 825 gallons Cadmium Cyanide Waste 605 gallons methylene chloride 214,000 pounds Triad Sludge (unknown components) 33,225 gallons cyanide 1,045 gallons methyl chloroform 220 gallons Perchlorethylene 3 Transformers 3 Capacitors 1,265 gallons PCB oil 550 gallons PCB sludge 1,040 cubic yards/yr foundry sand (\*see analysis other page in packet)

This is a tally of Bendix Corporation Liquid Waste Hauler reports for the year of 1976 to get an idea of wastes disposed of. This could be considered to be a representative sampling of the waste haulers reports and indicative of wastes possibly disposed of prior to 1973 or 1974 when their disposal practices were revised. Since many of the sites Bendix notified on fall into the period prior to 1973-4, this is a means to look at quantities and types of wastes possibly disposed of into off-site private and city/county facilities.

SB/sk